

## Broadview Fire Department

# Radio Maintenance

Captain Carl A. Lite

2010 Annual Report

The Radio Maintenance Division is under the supervision of Captain Carl Lite.

The following equipment is maintained by this division:

- (1) Radio Antenna Tower
- (1) Base Station Radio
- (1) Remote Radio
- (13) Mobile Radios
- (5) Radio Encoders
- (22) Portable Radios
- (1) MABAS Alerting Radio
- (1) Division 20 Alerting Radio
- (2) Ni-Cad Battery Charger/Analyzers
- (2) Paramedic Telemetry Radio (cellular)
- Miscellaneous spare parts & components



The Radio Maintenance Division is under the supervision of Captain Carl Lite.

The base station and mobile radios are covered under a service contract with J & L Service of McHenry, Illinois. All other radio equipment is serviced on a per cost basis.

Repairs have been made to the following equipment in 2010.

Tower Antenna	(0)
Base Station	(0)
Car #211	(0)
Car #219	(0)
Car #222	(0)
Squad #213	(1) ... New battery
Squad #218	(1) ... New battery
Rescue Squad #212	(0)
Truck #214	(0)
Engine #215	(2) ... New battery
Engine #216	(2) ...New battery

**Communications is the number one priority in the fire service, as proven by the disaster of 9/11 and we must continue to keep up with the new technology of our day.**

Division 20 Alerting Radios  
Replaced (6) six Portable Radio Batteries  
Replaced (4) Antennas on Portable Radios  
Replaced (2) Remote Microphones on Portable Radios

Purchased (4) new portable radio batteries for the HT1000 radios and (1) new batteries for the MT1000 portables. New batteries will be needed on a ongoing basis to replace the older ones that no longer hold a charge. All of these radios are programmed with the new fire ground frequency being used with our Division 20 and other Divisions that we do mutual aid with. This gives everyone a common frequency to use during an emergency for better communications. Eight (8) HT1250 portable radios were purchased for all the officers to have their own radios which freed up more portable for all the firemen to have. Technology has moved past us and we will be in need of new, more up to date radios in the very near future.

Whenever possible, Fire Department personnel have made minor repairs to our equipment. Portable radio batteries are rotated and recharged every third day. This increases the battery life. A new multi-charger with Motorola impress batteries now recycle themselves in the new charger for a more dependable, longer lasting battery with a extended life span.

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Communications is the number one priority in the fire service, as proven by the disaster of 9/11 and we must continue to keep up with the new technology of our day, regretfully at a high cost from time to time.

Respectfully Submitted,

Carl A. Lite  
Captain

# Broadview Fire Department

## Mechanical Division

Firefighter James Cannon

2010 Annual Report

The regular schedule of maintenance included grease and oil changes on all vehicles, tune-ups on all apparatus, and replacement of minor items such as wiper blades, light bulbs, etc... In addition, the following is a summary of other information and work completed.

### **CAR #211**

Removed and Replaced AC Accumulator, Recharged Entire System

Recharged A/C due to minor leak

Washed waxed and cleaned engine compartment multiple times throughout year

Removed and replaced horn

Installed new battery

Performed load test and charging system

Repaired Siren

Changed Oil & Filter



## Mechanical



### **CAR #219**

Waxed Vehicle multiple times throughout year

Recharged Air conditioning

Repaired right rear tire

Repaired outer flashing lights & replaced flasher

Removed and replaced several light bulbs.

Changed Oil & Filter & Lubed front end

### **CAR #222**

Waxed Entire Vehicle multiple times throughout year

Removed and replaced pitman shaft seal in steering gearbox

Worked on Electrical wiring harness

Replaced one tire

Completed grease and oil/filter change

Removed and replaced upper ball joints on front end suspension

Changed Oil & Filter & Lubed front end

### **ENGINE #215**

Replaced roll pin in the handle for the pump panel discharge port

Communication Direct removed pump panel radio for repair

Straightened and repaired rear tailboard, straightened engineers side rear compartment panel

Mobile radio was repaired

Preventive Maintenance, Changed Oil, Filters, Lubricated Chassis

Completed Annual Hose Testing

## Mechanical

Replaced soft suction supply hose

Repaired Fire Pump Water line to booster line

Tightened Fire Pump Packings

Removed and replaced soft suction restraints

Waxed Apparatus multiple times throughout the year

Repaired all bleeder valves by rebuilding them

Completed U.L. pump test

### **ENGINE #216**

Investigated a loud noise coming from the front end

Lubricated chassis

Removed and replaced front suction hose

Ordered and replaced soft suction hose restraining straps for the above

Removed and replaced Officer's side siren switch with a new unit to replace a nonfunctioning unit

Removed and replaced New Steering Wheel

Removed and replaced rear spring shackle on Officer's side front axle

Removed and replaced all pump panel and port tags and markings

Replaced all pump panel markings

Straightened and repaired rear tailboard

Removed and repaired clearance lights on same post accident including replacing tailboard running lights & protective cages





Repair rear rotating beacon light

Removed and replaced tailboard running lights & protective cages

Checked Opticom Operation

Completed Annual Hose testing

Removed and replaced and rebuilt Hydraulic assist power steering cylinder

Reloaded rear hose beds

Recharged A/C system

Replaced one pair of hearing protectors

Tightened pump packings

Repaired engine cover, straightened hinges  
- weather stripped openings

Recharged dry chemical extinguishers post use

Removed and replaced turn signal and Emergency Flasher

Waxed Apparatus multiple times throughout year

Completed preventive maintenance, chassis lubrication including all filters and oil change

Checked for water damage and infictration to differential/ gear case, transmission etc. post flood

Removed and replaced Engineer's side low beam headlight

Turn signal flasher replaced/ post flood

Removed and rebuilt discharge port valve for up coming pump test



Repaired all bleeders for upcoming pump test

Repaired strobe lights on rear tailboard, electrical connectors burned up and were replaced

Removed and replaced port actuator switch

Removed and replaced high beam flasher relay

Removed and replaced headlight sequencer

Completed U.L. pump test

Removed and replaced stop and look button on tailboard driver's side

Cleaned compartments and interior

Repaired petrogen torch including tips

Removed and replaced front strobe tube

Removed and replaced cell phone

Checked for front system air leak, unfounded

Mounted secondary microphone holder

Replaced all batteries

Recharged water extinguishers

Cleaned and painted all hand tools

Repaired flashlights

Removed and replaced engineer's side rear bumper turn signal light



## Mechanical



### **SQUAD #212**

Waxed Entire Vehicle multiple times throughout year

Filled Breathing Air Tanks

Cleaned and checked operation of light tower including telescope lubrication

Cleaned and Lubricated telescope mast on light tower

Preventive Maintenance, Changed Oil, Filters, Lubricated Chassis

Repaired Plymovent, removed and replaced lower section hose

Removed and replaced several interior lights

Installed Garmen Navigation System

Charged Vehicle Batteries

Left front rotating light cleaned terminals and connectors

Remove and replaced switch on floorboard for siren operation, Officer's side

Checked batteries

### **AMBULANCE #213**

Replaced one rear Star of Life vinyl decal

Exchanged drugs at Loyola

Waxed Entire Vehicle multiple times throughout year

Removed and replaced rear compartment door, replaced door lock and latches on same

Completed bodywork to passenger side fender and door

Checked charging system





Preventive Maintenance, change oil, filters, lube  
- chassis

Repair strobe light on rear of box

Repaired shoreline

Removed, replaced and repaired slide drawer for  
action station

Removed and replaced several interior and exterior  
lights

Cleaned stretcher and compartments

Removed and replaced one light bulb on front light  
bar

Installed Garmen Navigation System

Removed and replaced momentary exterior door lock  
switch on tailboard

Removed and replaced rear door latch and lock  
assembly

Cleaned engine

Removed and replaced strobe tube assembly

Removed and replaced lights in front and rear light  
bars multiple times

Removed and replaced door and fender, straight-  
ened jamb and fender  
reinstalled, adjusted both

Safety lane sticker was renewed

Opened valve providing heat to rear patient  
compartment



### **AMBULANCE #218** Replaced both rear mounted Stars of Life

Exchanged drugs at Loyola

Replaced Radius Rod Bushings

Worked on shoreline chord eject

Waxed entire vehicle multiple times throughout year

Continued front end work, mainly sway bar bracket replacement

Replaced numerous lights

Removed and replaced strobe light assembly on rear driver's side twice in a year

Repaired door and handle on passenger side cab

Cleaned engine and compartment

Repaired connections on left rear revolving light

Removed and replaced door latch, restoring power door lock operations

Safety lane sticker was renewed

Preventive maintenance, change oil, filter, lube chassis

Repaired interior lights

Opened valve providing heat to rear patient compartment

Repaired air horn with parts from Buell

Performed scan analysis on engine high idle function

Completed transmission service with new fluid and filter

Completed dealer recall campaign

## Mechanical

### TRUCK #214

Completed preventive maintenance, including engine oil and filter, checked all fluid levels and lubricated chassis.

Communications Direct out to look at pump panel radio

Repaired and adjusted calibrated ventilation saw

Repacked 4 hose

Filled breathing air tanks

Waxed Entire Apparatus multiple times throughout year

Removed and replaced leaking rear brake chamber, driver's side  
curing air leak

Worked on generator

Cleaned engine and undercarriage

Completed U.L. pump test

Repaired wiring for front high beam flasher

Repaired instrument panel lights

Installed screws to re secure top door of hose bed

Repaired wiring connection to shut down solenoid on generator

Repaired left rear rotating beacon of cab

Worked on mirrors and switches replaced both switches

Repaired muffler hanger

Repaired driver side front outrigger

Ordered discharge port valves

Removed and replaced cracked light lens cover on the front of ladder platform



## Mechanical

### Tractor #220

Nothing to report

### General Work Orders

Service Center hydro tested medical O2 cylinders

Removed and replaced integrated pump and motor assembly of kitchen dishwasher

Continued replacement of inoperable apparatus floor light ballasts

Drained all condensation and replaced water separator valves on the shop air compressor

Power rodded shop floor drain and slop sink

Flushed out apparatus floor catch basin

Flushed out and cleaned station ejector pit in the storage room

Hastings repaired Plymovent

Adjusted water level on east hall drinking fountain

Refilled medical O2 cylinders

Completed monthly breathing air compressor, Maintenance schedule

Repaired kitchen cabinet shelving

Rebuilt light fixture for alarm room message board

Continued light bulb replacement on apparatus floor

Repaired star command portable mobile radio which was out of service

Ordered new shop floor jack

Lubricated station overhead doors

Replaced hallway photo frame glass

Repaired overhead door hinge for truck 214

Zoll repaired and calibrated monitors

Repaired south parking lot entrance hydrant lights

All station computers updated

Broke down and cleaned all station humidifiers and put into storage for season

Repaired clothes dryer



## Mechanical

Washed, Cleaned and Waxed DDFU trailer

Cleaned shop floor

Completed monthly on station generator

Repaired station fuel pump

Sanitized all showers

Repair police tie line

Repaired outdoor grill by rebuilding with replacement parts

Washed bed covers and bed spreads

Repaired photocopy machine

Checked battery charger operation

Cleaned station windows

Cleaned shop and workbench

Ordered parts for repair of Karcher pressure washer

Repaired Captains computer

Village gasoline pump repaired after police department drive off

Brand new floor jack in for repair at Chicago Jack 3x'S

Repaired dishwasher leakage

Mounted new T.V. and brackets on dining wall

Rodded and cleaned out urinal drains in firefighter's bathroom

Repainted entire kitchen

Replaced ceiling tiles on apparatus floor damaged by storm

Repaired kitchen hood vent damaged in a severe storm

Comcast repaired cable service

Repaired south lot drill tower double doors

Removed and replaced fire station water heater, cleaned out faucets of debris

Fertilized station lawn



## Mechanical



Replaced breathing Air Compressor, canister filters

Replaced cable and tips on power rodder

Fuel pumps were inspected by the state

Monthly maintenance on titan portable equipment

Repaired Karcher pressure washer

Climatemp repaired station A/C unit

Replaced antennas on several portable radios

Trimmed evergreens in front of station

Repaired microwave oven shelving

Reinstalled vent grate on northeast corner of building damaged by storm

Replenished station supplies

Cleaned apparatus ceiling fan

Temporally repaired patio fencing damaged by the storm

Cleaned air pit intake

Cleaned out hot water circulating pump

Completed monthly on station emergency generator

Removed and replaced apparatus floor radio speaker by Communication Direct

Changed air compressor oil

Scan Am recalibrated the station paging system

Addressed plumbing issues with Gino's Plumbing, re: North side drain tile

Repaired faucet in Captain's Dorm

Unclogged and power rodged bathroom in lobby

Installed collection flush valve on hot water renew line

HVAC blower fans were cleaned

Air One conducted annual MSA SCBA inspections

Repaired high water alarm switch in basement

## Mechanical



Repaired rear apparatus floor grates

Removed and repaired front (east) ejector pit pump brass float ball

Repaired ejector pump float switch

Diesel fuel pump repaired after drive off by Public Works

Washed and cleaned personnel turn out gear

Removed and replaced multiple ceiling tiles on apparatus bay

Cleaned and rodded floor drains

Analysis of air quality done on Breathing Air Compressor

Cleaned catch basin for drains on apparatus floor

Repaired Officers dorm shower

Repaired south parking lot

Vacuumed and cleaned filters for apparatus floor heating units

Repaired east apparatus floor exit sign

Vacuumed and cleaned filters in HVACs units in living area

Flushed apparatus floor drains

Cleaned shop bench of equipment and debris

Painted park bench on apparatus floor

Continued repair of apparatus bay ceiling light fixtures by replacing ballasts, light bulbs and sockets

Painted generator room entry door and jam

Cleaned and scraped wall vent and roof mount condenser for paint

Repaired one air pack harness

Repaired toilet in Captain's dorm

Replaced flags at Village Hall

Reset all station clocks.

Installed new water separator on shop compressor, drained condensation from system

Received delivery of and assembled 17 office chairs, distributed throughout station



## Mechanical



Repaired light fixtures on station display sign

Replaced light bulbs in and around station

Avalon serviced fuel tanks, pumps and changed filters, the fuel supply was treated also

Set up station humidifiers for winter season

Completed name plates and passport engraving for shift personnel

Cleaned all station showers

Respectfully submitted,

*James D. Cannon*

James D.Cannon  
FF/Mechanic